

Gloves / Composite insulating gloves

3 in 1

Protection:
Electrical
Mechanical
Arc-flash

30202 SGM

Composite insulating gloves provide electrical, mechanical, and arc-flash protection; therefore, it is not necessary to use them in combination with a separate mechanical protective over-glove. The Composite glove range is made using a natural latex base coated with an outer layer of polychloroprene, combining mechanical resistance and comfort with a high level of electrical protection.

Arc-flash protection: the glove is manufactured from a material that provides a high level of protection against arc flash.



IEC 60903 | IEC 61482-1-2
ASTM F2675/F2675M:23



Red external finish with beige internal finish.

Code	Ref.	Class	Thickness (mm)		Working voltage (V) max.	Proof test voltage (V) max.	Size	Length (mm)	Category
			max.	medium					
531110	SGM-25 T9	00	< 2.4	1.5	500 V AC	2.500 V AC	7*	360	RC
531120	SGM-25 T10								
531150	SGM-50 T9	0	< 2.9	1.6	1.000 V AC	5.000 V AC	8*		
531160	SGM-50 T10								
531190	SGM-10 T9	1	< 3.4	1.8	7.500 V AC	10.000 V AC	9		
531200	SGM-10 T10								
531230	SGM-20 T9	2	< 3.9	2.5	17.000 V AC	20.000 V AC	10		
531240	SGM-20 T10								
531270	SGM-30 T9	3	< 4.2	3.1	26.500 V AC	30.000 V AC	11		
531280	SGM-30 T10								
531310	SGM-40 T10	4	< 4.8	3.8	36.000 V AC	40.000 V AC	12*		
531320	SGM-40 T11								

Meaning of letters in 'Categories': A: Acid / Z: Ozone / H: Oil / C: Very low temperature / R: A+Z+H resistance.

* For sizes 7, 8 and 12 consult.

MECHANICAL AND THERMAL REQUIREMENTS

- Average tensile strength: ≥ 16 MPa
- Average elongation at break: $\geq 600\%$
- Tension set: $\leq 15\%$
- **Complementary tests and performance levels to be achieved:**
 - Cutting resistance: > 20 mm and 5 N, according to ISO 13997. (equivalent to level 2 according to EN 388)
 - Abrasion resistance: ≥ 0.05 mg/t
 - Tear resistance: > 25 N (equivalent to level 2 according to EN 388)
 - Puncture resistance: > 60 N (equivalent to level 2 according to EN 388)
 - Resistance to very low temperatures: gloves conditioned for 24 hours at -40 °C \pm 3 °C
 - Flame-retardant test: application of a flame for 10 seconds to the fingertip.

Available in sizes:



Recommended size

	9	10	11
Circumference in cm	21	24	26

Measured with the hand closed.

MANUFACTURING AND RETESTING OF INSULATING GLOVES

At Sofamel, we operate a fully dedicated production line for the manufacture of latex insulating gloves. Our processes are certified to the ISO 9001:2015 quality standard and comply with the requirements of EN 60903:2003 and IEC 60903:2014.

We also have a specially designed glove retesting booth for carrying out electrical tests, enabling us to provide all our customers with the best after-sales service for dielectric gloves.



YOUR SAFETY IS VITAL

THEREFORE, REGULAR INSPECTIONS OF INSULATING GLOVES ARE ESSENTIAL

RECOMMENDATIONS FOR THE MAINTENANCE AND VERIFICATION OF INSULATING GLOVES

Insulating gloves for live working are personal protective equipment (PPE) that prevent electrical hazards and are classified as Category III (fatal risk) under EU Directive 2016/425. The reference standards (EN 60903 and IEC 60903) define the recommendations for their use and inspection.

CLASS 0 and 00 GLOVES	Air leakage test and visual inspection	RECOMMENDED BEFORE EACH USE
	Dielectric properties test	UPON CUSTOMER REQUEST
CLASS 1 and 4 GLOVES	Air leakage test and visual inspection	RECOMMENDED BEFORE EACH USE
	Dielectric properties test	<p>MANDATORY</p> <ul style="list-style-type: none"> • Every 6 months from the start of service. • Maximum of 12 months from the date of manufacture if not used.

THE DEFINITION OF A GLOVE'S LIFESPAN IN NO WAY EXEMPTS THE RECOMMENDATIONS FOR PERIODIC INSPECTIONS.

Storage conditions

According to EN 60903 and IEC 60903 standards for Class C, gloves can be used at ambient temperatures between -40 °C and +55 °C. They are delivered in a UV-resistant plastic bag suitable for transport and storage. Store the gloves in a dry, dark place at temperatures between 10 °C and 21 °C. Do not compress, fold, or store them near sources of heat, light, or ozone.